



AMERICAN DYNAMICS CORPORATION

Technical Sales Representatives

TELEPHONE
AREA CODE 617
491-6800

17 DUNSTER STREET CAMBRIDGE, MASSACHUSETTS 02138

IS FIBER OPTICS JUST A GIMMICK?

We are not here to tell you "it's a scientific break-through," nor other flowery statements, but we do say fiber optics is no longer just a laboratory curiosity. Commercial products using fiber optics are in use, and a number of new products are being developed.

The basic concept is a simple one. Threads of optical-quality glass are coated and bundled together with their ends bound and polished optically flat. This forms a carrier or "light pipe" for non-polarized light that can be bent or even tied in a knot with minimum loss of transmission. Two of these bundles in a protective covering, with a light source at the end of one, and a light sensing cell at the end of the other, form the basic Bausch & Lomb LIGHT SWITCH. The light cell reacts to a change in intensity of reflected light and opens or closes a switch. It is simple and rugged. Its uses are limitless, but of greatest value when the object to be sensed can be seen but not touched.

If the fibers in a bundle are carefully arranged so their orientation is identical at both ends of the bundle, the light wire will now carry a coherent picture or image which can be focused or even magnified with appropriate lenses. This concept is utilized in the Bausch & Lomb FLEXISCOPE, an inspection tool with built-in light source which can be probed around corners and into a variety of places having an opening down to one-half inch diameter.

As product building blocks, fiber optics show results in picking up point images from cathode ray tubes, illuminating many points from one light source, or, in the medical field, as a "heatless" transmitter of light. If you have an application area, we would be pleased to explore it with you. Fiber optics is not an inexpensive solution, but in many situations it is a practical answer to a seemingly impossible requirement.

We have demonstration units of the Bausch & Lomb LIGHT SWITCH, FLEXISCOPE and samples of LIGHT WIRES. If you have a problem they might solve, pick up the telephone and call 617-491-6800 for a demonstration appointment now!

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